

ASSIGNMENT SET - I
Department of Nutrition

Mugberia Gangadhar Mahavidyalaya



Subject- Food Processing
Semester-IV

Paper Code: BVFPS404

[Food Plant Utilities and Services]

Answer all the questions

Unit-1

1. What do you mean food plant utilities and services? 2
2. What do you mean commercial energy pricing? 2
3. Write a short note on classification of various utilities and services in food industry. 5

Unit-2

1. What do you mean electricity? 2
2. What do you mean electricity billing? 2
3. Write five key elements of electricity bill. 5
4. What is the difference between voltage and electricity. 3
5. Define power factor improvement. 3

Unit -3

1. What do you mean motor efficiency? 2
2. Define types of electrical motors. 3
3. Write a short note on factors effecting motor performances. 5

Unit-4

1. What are the requirements of compressed air system? 3
2. Define compressor efficiency. 2
3. Write a short note on components of compressed air system. 4
4. What do you mean leakage test? 3
5. What do you mean capacity assessment? 2

Unit -5

1. What are the requirements of refrigeration system? 3
2. What do you mean HV AC? 2
3. What do you mean refrigerants? 3
4. Write short note on vapor compression refrigeration cycle. 3
5. Briefly describe factors effecting refrigeration. 5

Unit- 6

1. What are the importance of fan and blowers in food plant industry? 3
2. Define fan and blower types. 3
3. Write a short note on performance evaluation. 4

4. What do you mean efficient system operation? 2

Unit-7

1. Write a short on flow control strategies of pumping system. 4
2. What are the requirements of pumping system? 3
3. Write a short note on performance evaluation. 4
4. What do you mean efficient system operation? 2

Unit-8

1. 1. What do you mean DG system? 2
2. What are the function of DG system? 3

Unit-9

1. Briefly describe the properties of –
 - Fuel oil
 - Coal
 - Gas6
2. Write a short note on principles of fuel combustion. 5
3. Briefly describe the classification of fuels. 10

Unit-10

1. Define boiler specification. 3
2. Write a short note on Indian boiler regulation. 3
3. Briefly describe types of boiler. 5
4. What do you mean water tube boiler and fire tube boiler? 3

Unit-11

1. Define various properties of steam. 4
2. What do you mean distribution losses? 2
3. Write short note on Steam trapping and steam leakage. 5

Unit-12

1. What do you mean waste heat recovery? 2
2. Define classification of waste heat recovery. 4
3. What are the advantages and application waste heat recovery? 4

Unit-13

1. Define lighting in food industry. 3
2. Write a short note on CIP system. 5
3. What are the importance of drainage system? 4
4. Write a short note on fire protection and maintenance system. 5
5. What do you mean dust removal? 2